

## MEDMASTER ENVELA®

### MEP SERIES with BIOS SkyBlue™

#### PRODUCT FEATURES:

- » Switched ambient-exam (bi-level) illumination modes
- » Features BIOS SkyBlue Technology to benefit daytime alertness, cognition, mood and circadian rhythms
- » High R9 value and High CRI provide biologically optimized LED spectrum for early detection of cyanosis.
- » Recessed ceiling mount – grid or flange; 2'x4'
- » Cleanable to NSF2 and sealed to IP64 construction standards
- » Tool-less access for servicing



#### SPECIFICATIONS

**HOUSING:** 20-gauge CRS. One-piece seam welded construction. Housing flange in 18-gauge CRS, with mitered and welded corners, spot-welded to housing. Mitered and welded corners. Black TGIC polyester powder coat – 5-stage pre-treatment. Salt spray test: 1,000 hours.

**REFLECTOR/LENS ASSEMBLY:** Fully gasketed, sealed luminous shield diffuser constructed of impact-resistant frost DR acrylic (FA). Reflector constructed in one-piece, formed 20-gauge CRS. Low-gloss white TGIC polyester powder coat with 5-stage pre-treatment. Salt spray test 1,000 hours. Tool-less lamp access.

**LED MODULE:** Serviceable static, mid-power Gen 2 BIOS Biological LED modules. Biological Static LED source with blue spectrum peak at 490nm and higher melanopic ratio. CRI 80+ with R9 > 90. Refer to table for specific melanopic values..

**DRIVER/CONTROL:** 120-277VAC, 50/60Hz electrical input (PF ≥ 0.9, THD < 20%). Two (2) line-voltage inputs control light output (0%/50%/100%) to create ambient-exam lighting modes. When ordered with low-voltage controller option (LVC), product is configured for a single line-voltage input as well as a low-voltage control input for ambient and exam operational modes (0%/50%/100% control). This product does not include an external 0-10V dimming input. Minimum 85% electrical efficiency. Serviceable, constant-current multi-channel programmable driver.

**INSTALLATION:** Grid Mount: Designed for 1" and Slot-T grid. Includes hardware to secure hanger wire. Flange Mount: Includes Frame Kit.

**PHOTOMETRICS:** Photometry tested to IESNA LM-79-08 test procedure. For additional photometric data, please go to [www.kenall.com](http://www.kenall.com)

**WARRANTY:** Limited five (5) year warranty.

**LISTINGS:** Luminaire is certified to UL Standards by Intertek Testing Laboratory for Wet Location and non-IC recessed installation. ETL certified IP64 per IEC 60598. NSF2 Splash/Non-Food Zone.



#### ORDERING INFORMATION (Ex: MEP24-G-90B-35K8-DIM1-DV-FA-LVC)

Model	Mounting Options	Lamp Power	Lamp Color	Driver Type	Voltage	Lens Type	Options
<b>MEP24</b>		<b>90B</b>		<b>DIM1</b>	<b>DV</b>	<b>FA</b>	
	<b>Mounting Options</b> <b>G</b> Grid (1") <b>ST</b> Slot-T Grid <b>F</b> Flange	<b>Lamp Type</b> <b>90B</b> 90 Watt BIOS	<b>Lamp Color</b> <b>35K8</b> 3500K SkyBlue / 80CRI min / R9 90+ <b>40K8</b> 4000K SkyBlue / 80CRI min / R9 90+	<b>Driver Type</b> <b>DIM1</b> BIOS Biological Static	<b>Input Voltage</b> <b>DV</b> 120-277 Volts  <b>Lens Type</b> <b>FA</b> Frosted DR Acrylic	<b>Options</b> <b>AMF</b> Antimicrobial Low-Gloss White on exposed surfaces of Reflector/Lens Frame <b>FS</b> Fuse & Holder <b>LVC</b> Low Voltage Controller (Click <a href="#">here</a> for specifications)	

#### ACCESSORIES ORDERED SEPARATELY

**MPWS** Low Voltage Wall Switch (Click [here](#) for Specifications)



[www.kenall.com](http://www.kenall.com) | P: 800-4-Kenall | F: 262-891-9701 | 10200 55th Street Kenosha, Wisconsin 53144, USA

This product complies with the Buy American Act: manufactured in the United States with more than 50% of the component cost of US origin. It may be covered by patents found at [www.kenall.com/patents](http://www.kenall.com/patents). Content of specification sheets is subject to change; please consult [www.kenall.com](http://www.kenall.com) for current product details. ©2022 Kenall Mfg. Co.

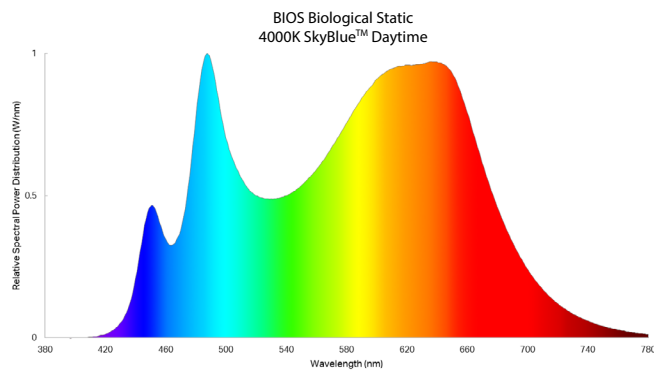
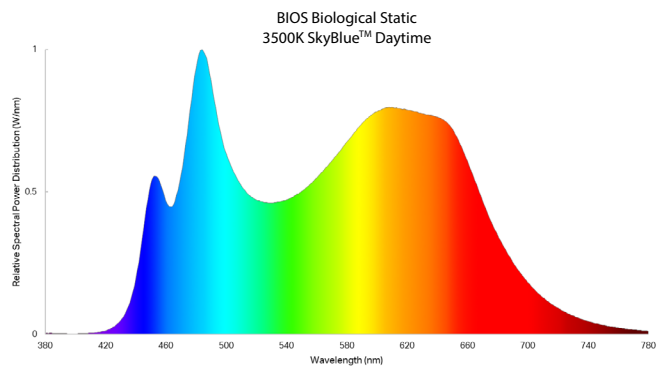
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## MEP SERIES with BIOS SkyBlue™

Delivered Melanopic Ratio					
BIOS Type	Lamp Order Code	Spectral Mode	Nominal CCT	Melanopic Ratio*	
				m-EER	m-DER
Biological Static	35K8	Daytime	3500K	≥0.80	≥0.72
Biological Static	40K8	Daytime	4000K	≥0.90	≥0.81

\*Melanopic ratios are provided in two forms: (m-EER) which is calculated using the WELL v2 methodology and the corresponding CIE melanopic Daylight Equivalent Ratio, (m-DER).

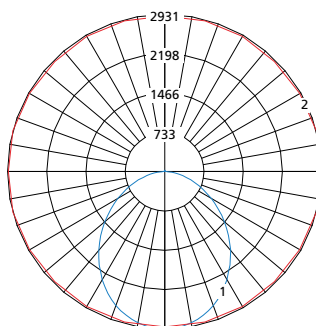


### PERFORMANCE

Lamp Type	@ 25C (lm)	Initial Delivered Lumens		Drive Current (mA)	Estd. L70 LED Life (Hrs)
		Efficacy (lm/W)	Input Power (W)		
90B-35K8	7,868	79	99	100	80,000
90B-40K8	8,543	86			

Displayed information is for FA lens type. Information subject to change without notice.  
Visit [www.kenall.com](http://www.kenall.com) for ies files additional information.

Model: MEP24-zz-90B-35K8-DIM1-1-DV-FA



Maximum Candela = 2931 Located At Horizontal Angle = 15, Vertical Angle = 2.5

- 1 - Vertical Plane Through Horizontal Angles (15-195) (Through Max. Cd.)
- 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)



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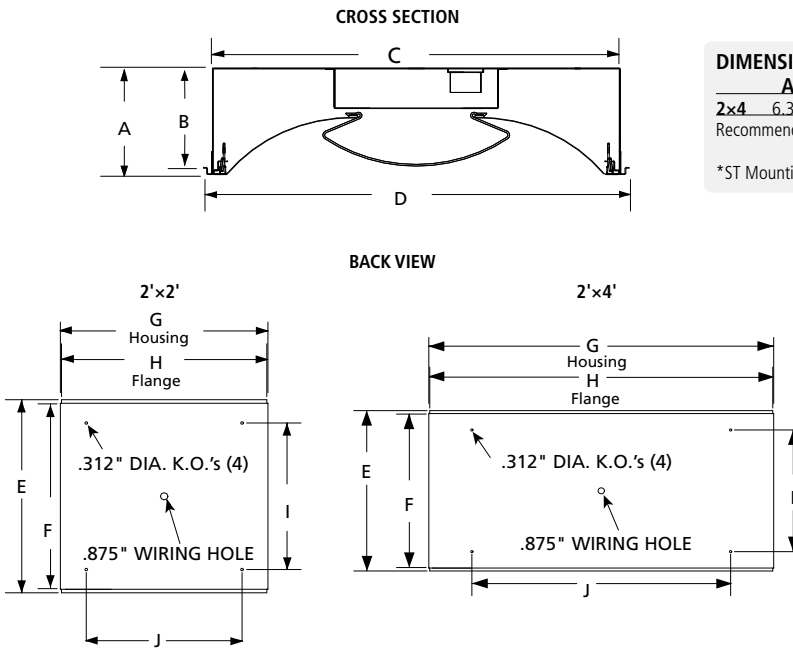
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MEP24-B-082422

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## MEP SERIES with BIOS SkyBlue™

### DIMENSIONAL DATA



#### DIMENSIONAL DATA (IN INCHES)

	A	B*	C	D	E	F	G	H	I	J
<b>2x4</b>	6.30	5.93*	22.70	23.72	23.72	22.70	47.98	47.72	18.00	36.00

Recommended Ceiling Cut-Out 24.50x48.50 (Flange fixtures)

\*ST Mounting Option Only



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